

SARDAR PATEL UNIVERSITY
Programme: M.Sc (Home Science)
Subject: Family Resource Management
Semester: II
Syllabus with Effect from: June - 2013

Paper Code: PH02CFRM02	Total Credit: 4
Title Of Paper: Residential & Institutional Appliances	

Unit	Description in detail	Weightage (%)
I	Basic components in An Appliance Mains Cord Switches – Power/Mode/Speed Selection Plugs And Sockets Controls – Thermostats Interlock Light-Bulbs Indicators –Incandescent/Neon/Lcd Heating Elements Solenoids-Resistors/Capacitor/Diodes. Small Electronic Components Motors-Universal/Induction/DC/Timing. Fans and blowers- bladed/centrifugal Bearing & Bushings Mechanical controllers- Time Motors/Cam Switches. Electronic Controllers – Simple Delay Microprocessor Based. Batteries-Alkaline/Lithium/Lead Acid Etc. AC Adapter/Charges. Product Testing for Quality. Need for Testing Institutions offering test facilities- BIS, IDEMI.RTC, ERTL, PTH, NTH Etc. Types of test- safety test, environmental test, physical test/Electrical endurance and performance test. Equipments required for testing of electrical appliances.	
II	Safety Against Household Appliances Definition of safety Safety technology” Classification of safety- inherent technical safety, Operational safety/ Actual safety. Electrical shock and its prevention. What is an electric shock? Potential sources of electrical shock Causes of electrical shocks Factors determining the severity of electric shock. Protection against electric shock.	
III	Selection criteria for Residential and Institutional Appliances. Design, portability, finishes, budget, use, installation requirements and maintenance required. Safety at work and while arranging appliances.	



IV	Recent Trends in Appliances: Recent developments and new technology in residential and institutional appliances. Evaluation of electrical and motor appliances in terms of speed, control, performance, time and energy saving features, noise produced etc.	
V	Researches need in residential and institutional appliances - past, present and future of research in residential and institutional appliances Institutions helping in researches and preserving trends.	

Basic Text & Reference Books:-

- Avery, M. (1955): Household Physics, Macmillan Co, New York
- Allison, A. (1966): Running your Home and Equipment: Design for Living, Series No. 6, Mills and Boon Ltd., London.
- Beveridge, E.(1965): Choosing and Using your Home Equipment, Iowa State University Press, Ames.
- Ehrencram and Inman, (1966): Equipment in the House, 2nd Edition, Harps Row Publisher, New York.
- Johnson B.J.(1970): Equipment for Modern Living, Macmillan Co, New York
- Peet, L.J., Picket, M.S. and Arnold M.G. (1962): Household Equipment, 7th Edition, John Wiley and Sons Inc.
- Peet, L.J., and Young, H.(1958): Home Equipment Guide, Iowa State University Press, Ames
- Wilson, P. (1981): Household Equipment Selection and Management, Houghton Mifflin Co, Boston
- Wileland, L.H.L.: At Work in the Kitchen, 2nd Ed, D.Van Nortrand CO. Inc., New York
- Van Zante H. (1970): Household Equipment Principles, Prentice Hall, New York
- Adams, J.T.(1981): How to Buy and Maintain Home Systems and Appliances, Arco Publishers Inc., New York
- Anderson, E., Andels, P. (1976) : Home Appliances Servicing, Taraporwala Sons & Co. Ltd., Bombay.
- NCERT (1987): exemplor Instructional Material for Pre vocational course under work experiences on repair and maintenance of household electrical appliances- Instruction Cum Practical Manual Classes IX & X, NCERT, New Delhi
- Varghese, M.A. et al (1985): Household Equipment Manual, S.N.D.T. Women's University, Mumbai.

